Updates on Hub & Spoke Framework

draft-ietf-softwire-hs-framework-l2tpv2-02

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Hub & Spoke Framework

- Update discussed in Interim Meeting (2006/09)
- Co-edited with B. Storer during October
- Final updates delayed, Draft Cut-off missed ...
- Last version:
  https://carlos.homeunix.net/svn/softwire/hs-framework-l2tpv2/hs-l2tpv2.txt
Hub & Spoke Framework

• Changes
  – No changes on scenarios
  – Consolidations of "Softwire Establishment" section
  – Structural and textual changes on "BCP" sections
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• Softwire Establishment
  – 3 steps defined:
    • L2TPv2 Tunnel Establishment
    • PPP and end points configuration
    • Additional configuration for routers
  – Last step is optional depending on which scenario is used
  – Scenario and Address Family to be used are decided by the Softwire Initiator
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• Softwire Tunnel Maintainance
  – 2 possibilities for Dead End Detection:
    • L2TP HELLO messages
    • PPP LCP messages
  – HELLO has 84sec timeout
  – Use LCP for faster Dead End Detection
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- "BCP" sections renamed as "Considerations"
- Considerations for operations of Softwire providers
- 5 sections at the end of the document
- Removed all normative language
Considerations for Address Provisioning

- Addresses for Softwire end points
  - Should give Global Addresses
  - Different solutions may be appropriate
  - Example for IPv6: One /64 per Softwire
- Delegated prefixes
  - Removed considerations about Reverse DNS
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• Considerations for Address Stability
  – New section with text taken from Addr. Provisioning
  – End points addresses may change even using the same SC
  – Delegated prefixes should be stable when using the same SC, but may change on a different SC
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- Considerations for RADIUS Integration
  - Add a reference to RRAO mechanism for DHCPv6 (Relay Agent RADIUS Attribute Option)
- Considerations for Maintainance and Statistics
  - Mention a problem to differentiate Address Family in traffic accounting (draft-stevant-softwire-accounting-01)
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- Moving forward
  - Finalize current draft
    - More schemas
    - More references to documents
  - Discuss changes on ML
  - To be sent to IESG as Proposed Standard